

ABSTRACT OF THE DISCLOSURE

A waveguide optical amplifier package has a circulator and a planar waveguide amplifier optically communicating with the circulator. A core of the circulator receives an input beam, separates the input beam into a first beam and a second beam, and manipulates the first beam and the second beam so that they have the same polarization as they enter the waveguide. The waveguide includes one waveguide for each beam or a single waveguide that receives both beams. Following amplification of the beams power levels, the beams are directed into the circulator which combines the beams into an output beam that exits the circulator.

W:\15436\182.1\FDR0000000269V001.doc

WORKMAN NYDEGGER
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
1000 EAGLE GATE TOWER
60 EAST SOUTH TEMPLE
SALT LAKE CITY, UTAH 84111